



PAT MCCRORY
Governor

DONALD R. VAN DER VART
Secretary

MICHAEL SCOTT
Director

Via Electronic Mail – JGuglielmetti@am-truetzschler.com
Via First Class Mail

May 10, 2016

John Guglielmetti
American Truetzschler, Inc.
Post Office Box 669228
Charlotte, North Carolina 28266

Re: **Water-Supply Well Sampling Results (WSW-41 ATSW)**
American Truetzschler
12300 Harbor Drive
Charlotte, Mecklenburg County, North Carolina
NONCD0001257

Dear Mr. Guglielmetti:

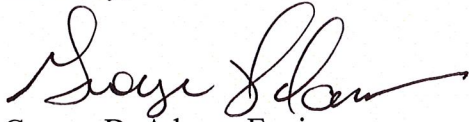
On March 8, 2016, Excel Civil & Environmental Associates, PLLC (Excel) collected a groundwater sample from a water-supply well at the above referenced location. The groundwater sample was submitted for laboratory analyses including select Volatile Organic Compounds (VOCs). A summary of the analytical results from the March 8, 2016 sampling event as reported by Excel and some historical data have been included in the attached "Table 1. Summary of Water-Supply Well Sampling Results" for your review.

Laboratory analyses of the groundwater sample collected from the onsite water-supply well on March 8, 2016 reported concentrations of acetone, 1,4-dioxane, tetrachloroethene, and toluene. The reported concentrations of tetrachloroethene and toluene are below the United States Environmental Protection Agency's (EPA's) Maximum Contaminant Levels (MCLs) for drinking water. The reported concentrations of acetone and 1,4-dioxane are below North Carolina Groundwater Quality Standards (15A NCAC 2L).

The data summarized in Table 1 were used to conduct a Health Risk Evaluation (HRE) by David Lilley of the Division of Waste Management (Division). I have enclosed a copy of the HRE and a portion of the laboratory report for your review. In addition, complete laboratory reports from the sampling event may be reviewed by accessing the Division's electronic records at the following web portal: <http://edocs.deq.nc.gov/WasteManagement/Search.aspx?cr=1>

I appreciate your participation in this assessment. If you have questions, need additional information, or would like to review the complete laboratory report in its entirety, please contact me at (704) 663-1699.

Sincerely,

A handwritten signature in black ink, appearing to read "George D. Adams", with a long horizontal flourish extending to the right.

George D. Adams, Engineer
Division of Waste Management, NCDEQ

Enclosures

cc: Patrick Grogan
Division of Water Resources, NCDEQ
patrick.grogan@ncdenr.gov

Shawna Caldwell
Mecklenburg County, LUESA
shawna.caldwell@mecklenburgcountync.gov

Table 1. Summary of Water-Supply Well Sampling Results

Constituent (µg/L)													
Lab Sample Number	Well ID	Date Sampled	Acetone	CHCl ₃	1,1-DCA	1,2-DCA	1,1-DCE	1,4-Dioxane	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Toluene
L596656-01	41 (PW-1)	9/19/2012	<50	<5.0	<1.0	<1.0	<1.0	20	<1.0	<1.0	<1.0	<1.0	<5.0
L614063-01	41 (PW-1)	1/4/2013	<50	<5.0	<1.0	<1.0	<1.0	23	<1.0	<1.0	<1.0	<1.0	<5.0
L626799-01	41 (PW-1)	3/22/2013	<50	<5.0	<1.0	<1.0	<1.0	30	<1.0	<1.0	<1.0	<1.0	<5.0
L643005-01	41 (PW-1)	6/20/2013	3.0 J J3	2.7	<0.50	<0.50	<0.50	53	<0.50	<0.50	<0.50	<0.50	<0.50
L741800-02	41 (ATSW)	1/5/2015	6.6 J	<0.50	<0.50	<0.50	<0.50	3.0	<0.50	<0.50	<0.50	<0.50	<0.50
L806544-03	41 (ATSW)	12/10/2015	<25.0	0.459 J	0.916	0.521	32.8	22.8	1.71	0.544	0.681	0.666	<0.500
L822260-01	41 (ATSW)	3/8/2016	5.67 J	<0.500	<0.500	<0.500	<0.500	2.66 J	0.206 J	<0.500	<0.500	<0.500	0.150 J

CHCl₃ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

J = Estimated Concentration

PCE = Tetrachloroethene

1,1,1-TCA = 1,1,1-Trichloroethane

1,1,2-TCA = 1,1,2-Trichloroethane

TCE = Trichloroethene

µg/L = micrograms / Liter (~parts per billion)



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DONALD R. VAN DER VAART
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May 9, 2016

TO: George Adams
Mooreville Regional Office
NC Superfund Section

RE: Health Risk Evaluation
NONCD0001257
Well Sampling Results
12300 Moores Chapel Road
Charlotte, NC

During this sampling event, four contaminants were detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If any contaminant concentrations exceed applicable standards for using the water for drinking and cooking, those contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentrations with the applicable standards:

Sample ID	Contaminant	Concentration (µg/l)*	MCL (µg/l)	2L (µg/l)
L822260-01/02	Acetone	5.67		6,000
	Tetrachloroethene	0.206	5	
	Toluene	0.150	1,000	
	1,4-Dioxane	2.66		3

* The abbreviation µg/l stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

RECOMMENDATION: None of the contaminants detected exceeded the applicable water standards. Therefore, no restrictions on the use of this water are recommended at this time.

David Lilley, Environmental Toxicologist
Division of Waste Management, NCDEQ



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	5.67	J	1.05	25.0	1	03/12/2016 13:25	WG855746
Benzene	U		0.0896	0.500	1	03/12/2016 13:25	WG855746
Carbon tetrachloride	U		0.159	0.500	1	03/12/2016 13:25	WG855746
Chlorobenzene	U		0.140	0.500	1	03/12/2016 13:25	WG855746
Chloroethane	U		0.141	0.500	1	03/12/2016 13:25	WG855746
Chloroform	U		0.0860	0.500	1	03/12/2016 13:25	WG855746
Chloromethane	U		0.153	0.500	1	03/12/2016 13:25	WG855746
1,1-Dichloroethane	U		0.114	0.500	1	03/12/2016 13:25	WG855746
1,2-Dichloroethane	U		0.108	0.500	1	03/12/2016 13:25	WG855746
1,1-Dichloroethene	U		0.188	0.500	1	03/12/2016 13:25	WG855746
cis-1,2-Dichloroethene	U		0.0933	0.500	1	03/12/2016 13:25	WG855746
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/12/2016 13:25	WG855746
1,2-Dichloropropane	U		0.190	0.500	1	03/12/2016 13:25	WG855746
Ethylbenzene	U		0.158	0.500	1	03/12/2016 13:25	WG855746
1,2-Dibromoethane	U		0.193	0.500	1	03/12/2016 13:25	WG855746
Methylene Chloride	U		1.07	2.50	1	03/12/2016 13:25	WG855746
Tetrachloroethene	0.206	J	0.199	0.500	1	03/12/2016 13:25	WG855746
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/12/2016 13:25	WG855746
1,1,2-Trichloroethane	U		0.186	0.500	1	03/12/2016 13:25	WG855746
Trichloroethene	U		0.153	0.500	1	03/12/2016 13:25	WG855746
Trichlorofluoromethane	U		0.130	0.500	1	03/12/2016 13:25	WG855746
Toluene	0.150	J	0.102	0.500	1	03/12/2016 13:25	WG855746
Vinyl chloride	U		0.118	0.500	1	03/12/2016 13:25	WG855746
Xylenes, Total	U		0.316	1.50	1	03/12/2016 13:25	WG855746
(S) Toluene-d8	97.6			90.0-115		03/12/2016 13:25	WG855746
(S) Dibromofluoromethane	100			79.0-121		03/12/2016 13:25	WG855746
(S) 4-Bromofluorobenzene	99.4			80.1-120		03/12/2016 13:25	WG855746

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	2.66	J	0.597	3.00	1	03/12/2016 07:13	WG855252
(S) Toluene-d8	105			70.0-130		03/12/2016 07:13	WG855252

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc